

XP-002205621

AN - 1980-86020C [48]

CPY - LEND-I

DC - E17

FS - CPI

IC - B01J37/16

IN - LELEKA V E; LENDER A A; LENDER Y U V

MC - E10-E04E E34-C02 E35-A E35-C N01-C02 N02-D01 N03-F

M3 - [01] H4 M210 M211 M231 M270 M281 M311 M320 H401 H481 M620 N010 N060
N000 M510 H8 M520 M530 M540 M720 M416 M902

- [02] A430 A940 C730 C101 C108 C803 C802 C807 C805 C804 C801 C550 A313
A400 A429 N010 N060 N000 Q421 M720 M730 M760 M411 M902

PA - (LEND-I) LENDER YU V

PN - SU728908 A 19800425 DW198048 000pp

PR - SU19772446888 19770125

XIC - B01J-037/16

AB - SU-728908 A catalyst of aluminium, copper and zinc used for methanol synthesis is passivated to increase the activity and mechanical strength by treating it with water or methanol and then drying at 100-125 degrees C. The previous passivating agent (steam) gave a catalyst with poor strength and low activity.

- The catalyst was used to synthesise methanol in a 1.5 l. reactor at 50 atmos., 180-260 degrees C and 10,000 hr.-1. It contained CuO 53.9, ZnO 26.2, Al₂O₃ 5.1, CO₂ 5.0, graphite 3.0, H₂O 6.6 and impurities 0.2%. After the catalyst was spent, it was passivated by cooling to 40 degrees C and treating with water for 24 hr., then drying at 115 degrees C. The prodn. of methanol in m.³/day was increased to 6.21-10.33 from the original value of 5.62-8.65, and the strength was increased from 63.0 to 65.6 kg./cm².

IW - PASSIVATION METHANOL SYNTHESIS CATALYST COOLING SPENT ALUMINIUM COPPER
ZINC CATALYST TREAT WATER METHANOL DRY RAPID

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INW - LELEKA V E; LENDER A A; LENDER Y U V

NC - 001

OPD - 1977-01-25

ORD - 1980-04-25

PAW - (LEND-I) LENDER YU V

TI - Passivation of methanol synthesis catalyst - by cooling the spent aluminium-copper-zinc catalyst and then treating with water or methanol and drying rapidly